02-04-03

1712

EXPRESS MAIL MAILING LABEL NO. EV230093871US

Docket No. 00SC080US6

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Dong-Feng Gu, et al

Examiner: Keehan, Christopher

Serial No: 09/855, 921

Filed: May 15, 2001

Art Unit: 1712

Title: POLYIMIDE-FREE ALIGNMENT LAYER FOR LCD FABRICATION AND METHOD

Assistant Commissioner for Patents
Box Non-Fee Amendment
Washington, D. C. 20231

AMENDMENT TRANSMITTAL

Sir:

Transmitted herewith is an Amendment and a Response to November 6, 2002 Office Action in the above-mentioned application. Applicant is a large entity.

Fee for Claims

	Claims As Filed	Present Paid For	Highest No. Addit. Extra	Rate	Fee
TOTAL	52	11	0	18.00	0.00
INDEP.	10	1	0	84.00	0.00
			Total Fee:		$ 0

We authorize the Commissioner to charge payment of any additional filing fees which may be required to credit any overpayment, to Deposit Account No. 18-1750. We enclose a duplicate copy of this sheet.

Respectfully submitted,

February 3, 2003

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EXPRESS MAIL MAILING LABEL NO. EV230093871US

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PATENT

#7/B
2/11/03
TC

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AMENDMENT

Sir:

IN THE SPECIFICATION

Please amend the first full paragraph on page 8 to read:

B1

The RM can be any type of reactive crystal material including oligomers or monomers which are monoacrylate or diacrylate. Many types of RMs are commercially available through suppliers such as Merck. The ingredients are mixed and dissolved, preferably in a ketone solvent such as cyclohexanone or MEK/Acetone/cyclopentanone, or toluene or chlorobenzene. The solvent has to be carefully chosen such that it can dissolve a substantial amount of RM and not destroy the alignment of the layer beneath it. Of the above listed solvents, chlorobenzene is the least preferred because it is more likely to attack the alignment of a layer beneath it.

IN THE CLAIMS:

Please amend claim 1 to read:

B2

SUB D1

1. (Twice Amended) An isotropic alignment layer for a liquid crystal device, comprising a cured polymer film formed from:

an epoxy; and

a reactive mesogen mixed with said epoxy, the reactive mesogen comprising liquid crystal molecules, the cured polymer film having liquid crystals randomly oriented, the surface liquid crystals being subsequently aligned.